Surgical Technique

smith&nephew

PERI-LOC®

Periarticular Locked Plating System

3.5mm and 4.5mm Lateral Proximal Tibia Locking Plates





PERI-LOC Periarticular Locked Plating System

3.5mm and 4.5mm Lateral Proximal Tibia Locking Plate Surgical Technique

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Nota Bene

The technique description herein is made available to the healthcare professional to illustrate the author's suggested treatment for the uncomplicated procedure. In the final analysis, the preferred treatment is that which addresses the needs of the specific patient.

Product Overview

The PERI-LOC Periarticular Locked Plating System from Smith & Nephew, Inc. offers the advantages of locked plating with the flexibility and benefits of traditional plating in one system. Utilizing both locking and non-locking screws, PERI-LOC offers a construct that resists angular (e.g. varus/valgus) collapse while simultaneously acting as an effective aid to fracture reduction. A simple and straightforward instrument set features one screwdriver, standardized drill bits, and color-coded instrumentation, making PERI-LOC efficient and easy to use.



All PERI-LOC implants are manufactured using the highest quality 316L stainless steel for strength and durability.

The precontour of the 3.5mm and 4.5mm Proximal Tibia Locking Plate provides an excellent fit against the surface of the bone.

Scallops at the proximal end of the plate allow easy placement of lag screws outside the plate for fixation of articular fractures.

Each screw hole in the 3.5mm Lateral Proximal Tibia Locking Plate will accept one of four different screws allowing customization of the screw configuration depending on the individual needs of the fracture:

- 3.5mm Locking Self-Tapping Cortex Screw
- 3.5mm Self-Tapping Cortex Screw (Non-Locking)
- 4.0mm Partially Threaded Cancellous Screw
- 4.0mm Fully Threaded Cancellous Screw

Each screw hole in the 4.5mm Lateral Proximal Tibia Locking Plate will accept one of four different screws allowing customization of the screw configuration depending on the individual needs of the fracture:

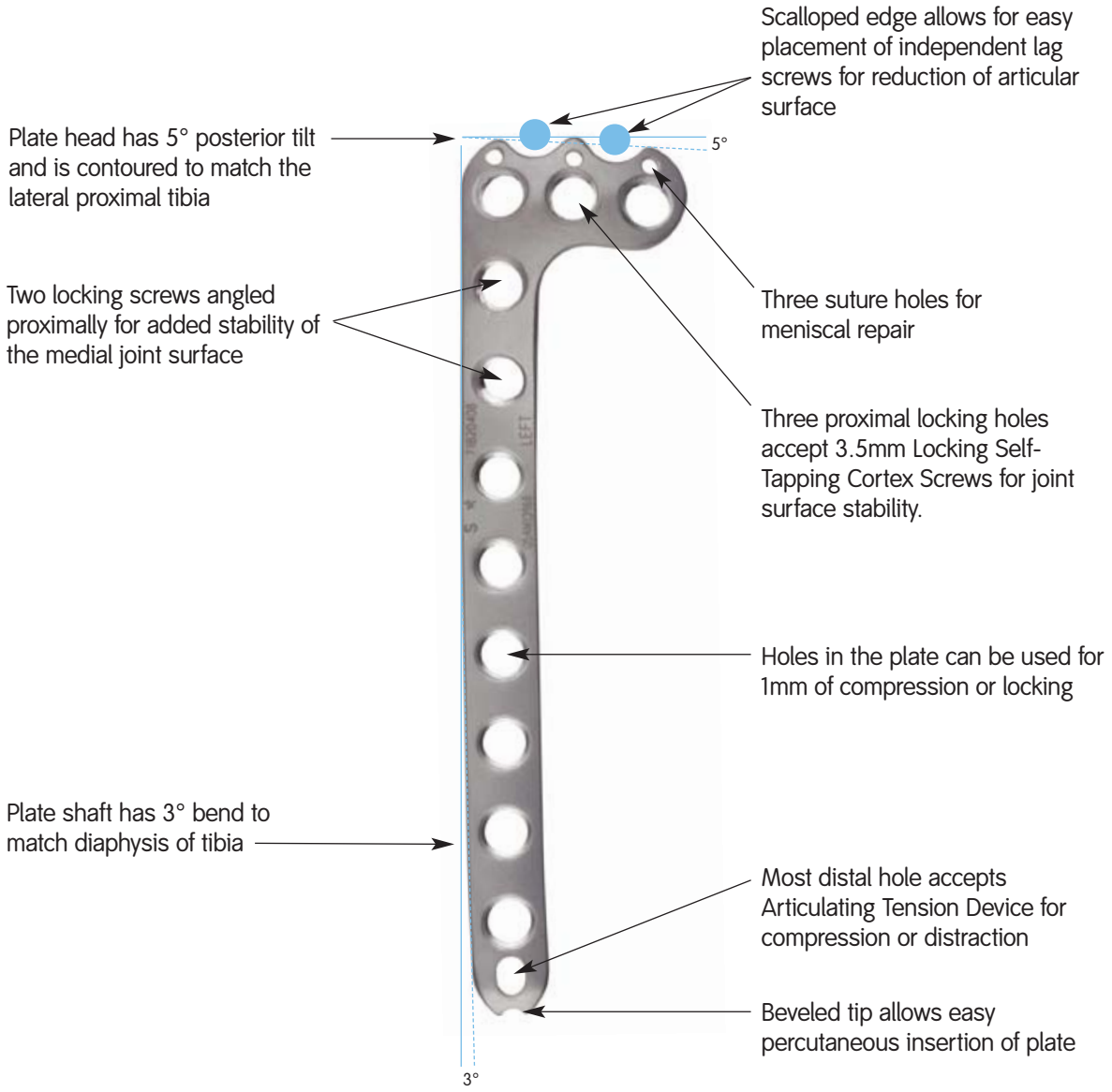
- 4.5mm Self-Tapping Cortex Screw (Non-Locking)
- 4.5mm Locking Self-Tapping Cortex Screw
- 5.7mm Cannulated Locking Screw
- 6.5mm Partially Threaded Cancellous Screw

Indications

The PERI-LOC Periarticular Locked Plating System is used for adult and pediatric patients as indicated for pelvic, small, and long bone fracture fixation. Indications for use include fractures of the tibia, fibula, femoral condyle, pelvis, acetabulum, metacarpals, metatarsals, humerus, ulna, middle hand and middle foot bones (particularly in osteopenic bone); treatment of the calcaneus; hip arthrodesis, and provisional hole fixation.

Components in the PERI-LOC Periarticular Locked Plating System are for single use only.

Design Features – 3.5mm Lateral Proximal Tibia Locking Plate



Each of the holes can accept one of four different screws:



3.5mm Locking Self-Tapping Cortex Screw
Cat. No. 7182-50XX



3.5mm Self-Tapping Cortex Screw (Non-Locking)
Cat. No. 7182-40XX



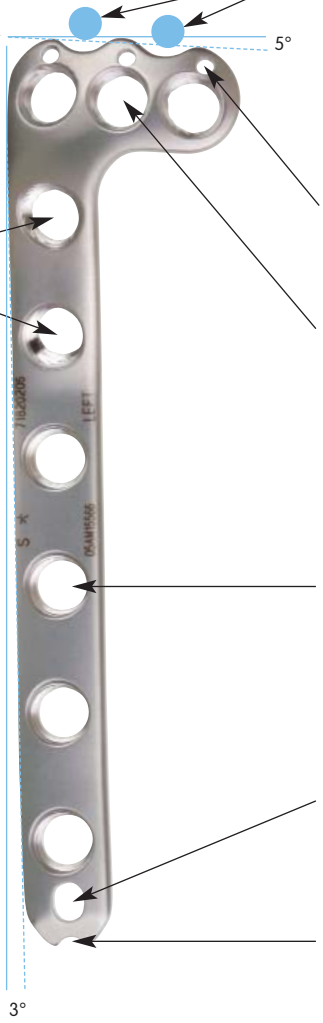
4.0mm Fully Threaded Cancellous Screw
Cat. No. 7182-52XX



4.0mm Partially Threaded Cancellous Screw
Cat. No. 7182-53XX

All screws use 3.5mm Hexdriver.

Design Features – 4.5mm Lateral Proximal Tibia Locking Plate



Scalloped edge allows for easy placement of independent lag screws for reduction of articular surface

Plate head has 5° posterior tilt and is contoured to match the lateral proximal tibia

Three suture holes for meniscal repair

Two locking screws angled proximally for added stability of the medial joint surface

Three Proximal Locking holes accept 5.7mm Cannulated Locking Screws or 4.5mm Locking Self-Tapping Cortex Screws for joint surface stability

Holes in the plate can be used for 1mm of compression or locking

Plate shaft has 3° bend to match diaphysis of tibia

Most distal hole accepts Articulating Tension Device for compression or distraction

Beveled tip allows easy percutaneous insertion of plate

Each of the holes can accept one of four different screws:



4.5mm Self-Tapping Cortex Screw (Non-Locking)
Cat. No. 7182-60XX



4.5mm Locking Self-Tapping Cortex Screw
Cat. No. 7182-70XX



5.7mm Cannulated Locking Screw
Cat. No. 7182-80XX



6.5mm Partially Threaded Cancellous Screw
Cat. No. 7182-81XX

All screws use 3.5mm Hexdriver.

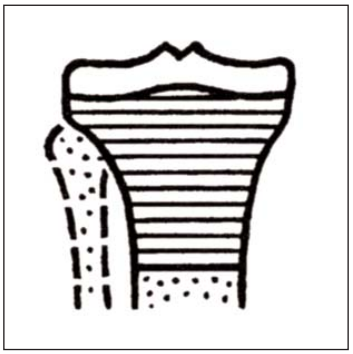
Patient Positioning

Place the patient in a supine position on a radiolucent table. Confirm that an unhindered lateral and AP view under fluoroscopy can be obtained.

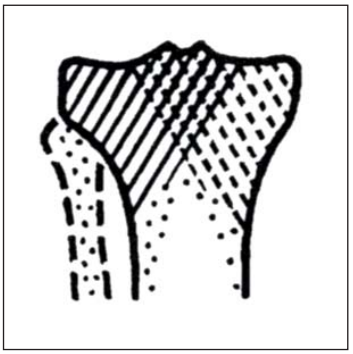
Obtain gross metaphyseal alignment using manual traction or skeletal distraction.

Incision

The lateral S incision is recommended for the following fracture classifications:



A. Extra-articular (41-A)



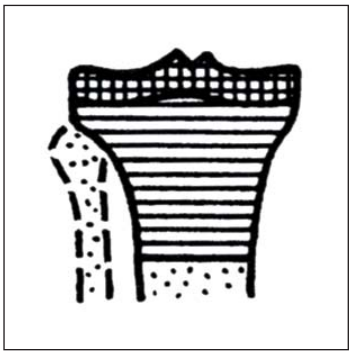
B. Partial articular (41-B)

OTA Fracture Classification courtesy of the Orthopaedic Trauma Association. For more information go to www.ota.org



Incision

The straight anterolateral incision is recommended for the following fracture classification.

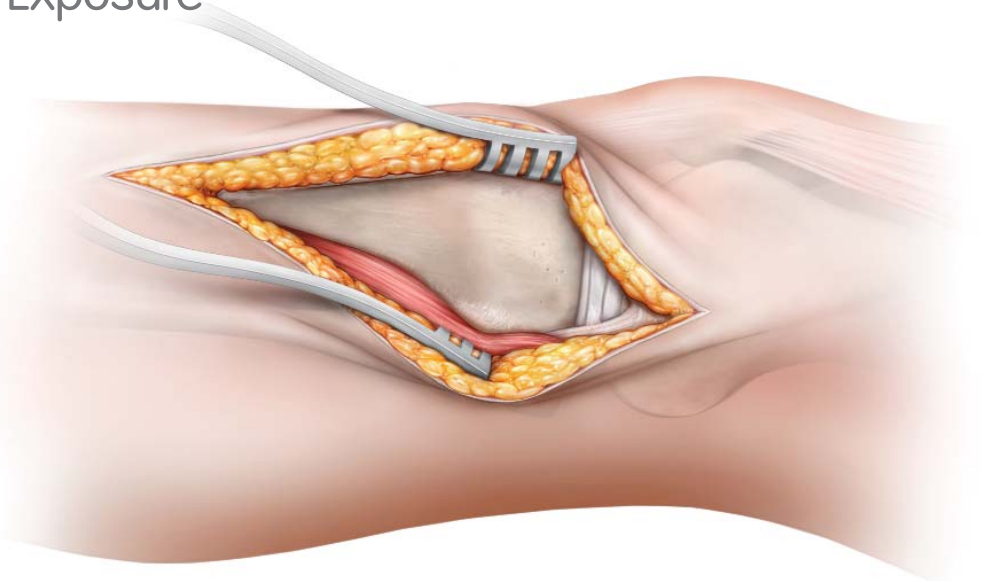


C. Complete articular (41-C)

OTA Fracture Classification courtesy of the Orthopaedic Trauma Association. For more information go to www.ota.org



Exposure

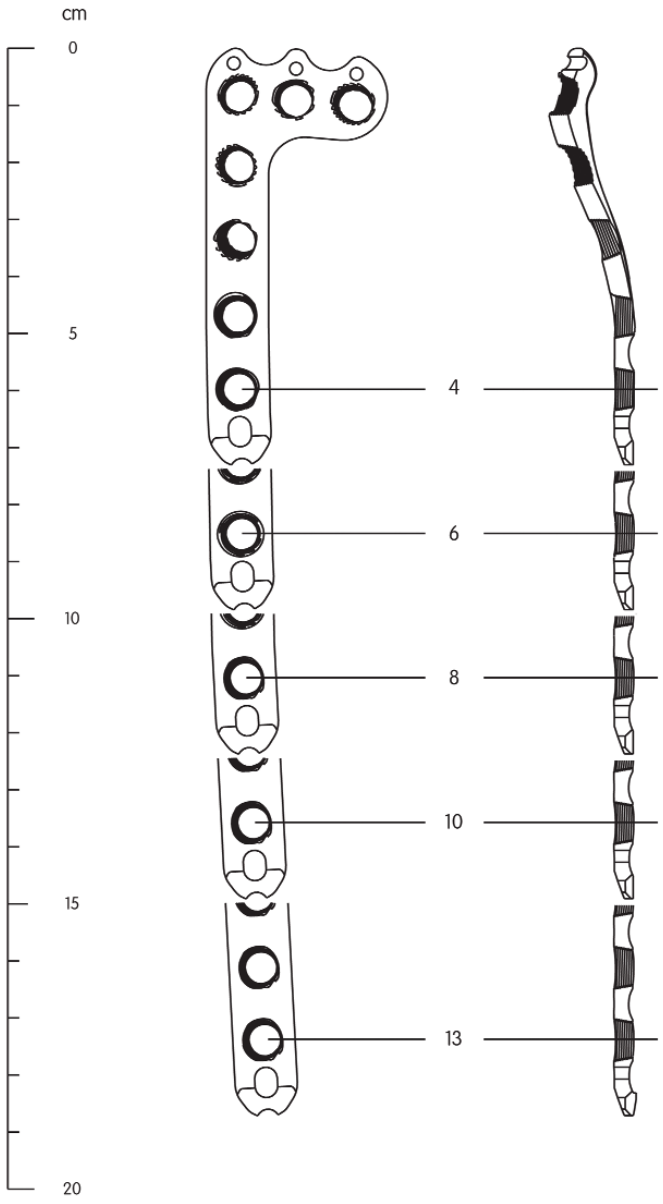


3.5mm Lateral Proximal Tibia Locking Plate Surgical Technique

Plate Selection

Using the PERI-LOC 3.5mm Proximal Tibia Plating Preoperative Template, determine the appropriate length plate for the fracture. In general, a longer plate allows for better mechanical advantage over a shorter plate. An allowance for five screw holes below the most distal aspect of the fracture is recommended when selecting plate length.





PERI-LOC 3.5mm Proximal Tibia Locking Plate Preoperative Template

Cat. No. 7118-0916

Articular Reduction and Provisional Fixation

It is important that articular fracture reduction be obtained prior to placement of locking screws. Temporarily secure articular fragments by using K-Wires and/or Reduction Forceps. Confirm reduction of the articular surface and place definitive fixation outside the plate if necessary.



Plate Positioning

Insert the plate and position it to the lateral proximal tibia. Reduce the fracture manually and confirm coronal and sagittal alignment as well as plate position on the shaft. Provisionally fix the plate to the diaphysis with two short (diaphyseal) Provisional Fixation Pins with adequate spread between them. Place a long (metaphyseal) Provisional Fixation Pin in one of the proximal holes under the joint.





Reduction Forceps
Cat. No. 7117-0044



2.7mm Provisional Fixation Pin, 18mm
Cat. No. 7117-3322

2.7mm Provisional Fixation Pin, 40mm
Cat. No. 7117-3323



3.5mm Self-Tapping Cortex Screws (Non-Locking)
Cat. No. 7182-40XX

Screw Insertion



Proceed with definitive fixation of fracture using appropriate screw selections. If non-locking screws are needed for either fragment, they must be inserted prior to insertion of locking screws in that fragment. Locking screws should be used through at least two of the distal holes and two of the proximal holes.

Place the 3.5mm Locking Screw Guide with the 2.7mm Locking Drill Guide Insert (orange insert) into one of the three proximal locking holes below the joint. Predrill with the 2.7mm Drill Bit parallel to the joint and extending to the medial plateau or desired screw length.

Measure for length by reading the calibrations on the 2.7mm Drill Bit or by using the Short 3.5mm Screw Depth Gauge and insert the appropriate length 3.5mm Locking Self-Tapping Cortex Screw using the 3.5mm Hexdriver with Quick Connect.



When a sagittal split is present, reduction can be obtained with either clamps or lag screws, outside or through the plate. Insert all necessary lag screws prior to placement of locking screws. Locking screws should be used in at least two of the proximal holes before proceeding with definitive fixation of the distal fragment.

2.7mm Drill Bit with Quick Connect

Cat. No. 7117-3503



3.5mm Locking Screw Guide

Cat. No. 7117-3538



2.7mm Locking Drill Guide Insert

Cat. No. 7117-3529

3.5mm Lateral Proximal Tibia Locking Plate

Confirm plate position and alignment prior to definitive fixation of the plate to the diaphysis. If non-locking screws are needed, they should be inserted prior to insertion of locking screws in the diaphyseal fragment.



Pre-drill for the 3.5mm Self-Tapping Cortex Screws (Non-Locking) using the 2.7mm Drill Bit with Quick Connect through the 2.7mm Compression or Neutral Locking Hole Insert (green or gold round drill guide inserts). Measure for length by reading the calibrations on the 2.7mm Drill Bit or by using the Short 3.5mm Screw Depth Gauge and insert the appropriate length 3.5mm Self-Tapping Cortex Screw (Non-Locking) using the 3.5mm Hexdriver with Quick Connect.

Remove the Provisional Fixation Pins and complete definitive fixation with the insertion of 3.5mm Locking Self-Tapping Cortex Screws.

Note: Locking screws can be inserted using a powered drill system, but should be tightened by hand. Tightening screws using a powered drill system may cause loss of reduction or expose the screw heads to excess torque.





2.7mm Neutral Locking Hole Insert
Cat. No. 7117-3514



2.7mm Compression Locking Hole Insert
Cat. No. 7117-3515



Universal Drill Guide Handle
Cat. No. 7117-3349



Short 3.5mm Screw Depth Gauge
Cat. No. 7117-3523

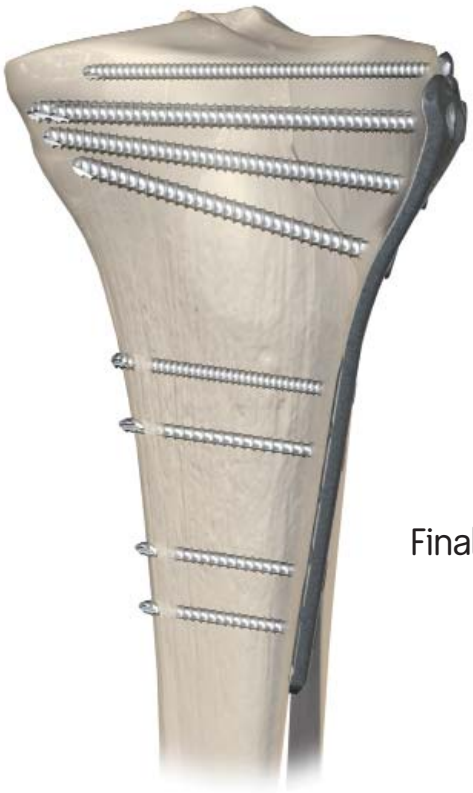


3.5mm Self-Tapping Cortex Screw (Non-Locking)
Cat. No. 7182-40XX

3.5mm Hexdriver with Quick Connect
Cat. No. 7117-3537



Final lateral view



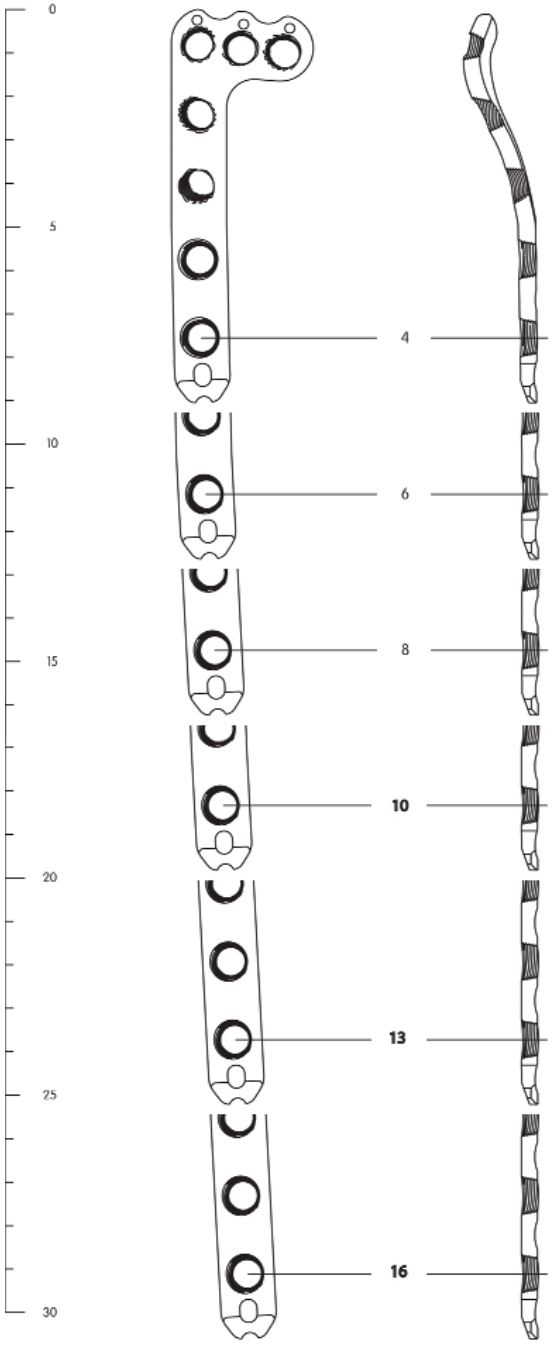
Final AP view

4.5mm Lateral Proximal Tibia Locking Plate Surgical Technique

Plate Selection

Using the PERI-LOC 4.5mm Proximal Tibia Plating Preoperative Template, determine the appropriate length plate for the fracture. In general, a longer plate allows for better mechanical advantage over a shorter plate. An allowance for five screw holes below the most distal aspect of the fracture is recommended when selecting plate length.





PERI-LOC 4.5mm Proximal Tibia Locking Plate Preoperative Template

Cat. No. 7118-0916

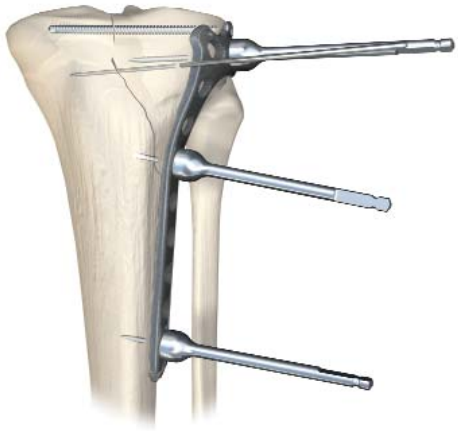
Articular Reduction and Provisional Fixation

It is important that articular fracture reduction be obtained prior to placement of locking screws. Temporarily secure articular fragments by using K-Wires and/or Reduction Forceps. Confirm reduction of the articular surface and place definitive fixation outside the plate if necessary.



Plate Positioning

Insert the plate and position it to the lateral proximal tibia. Reduce the fracture manually and confirm coronal and sagittal alignment as well as plate position on the shaft. Provisionally fix the plate to the diaphysis with two short (diaphyseal) Provisional Fixation Pins with adequate spread between them. Place a long (metaphyseal) Provisional Fixation Pin in one of the proximal holes under the joint.





2.0mm X 228mm K-Wire
Cat. No. 7117-3361

Reduction Forceps
Cat. No. 7117-0044

3.5mm Provisional Fixation Pin, 18mm
Cat. No. 7117-3324

3.5mm Provisional Fixation Pin, 40mm
Cat. No. 7117-3325

3.5mm Self-Tapping Cortex Screw (Non-Locking)
Cat. No. 7182-40XX

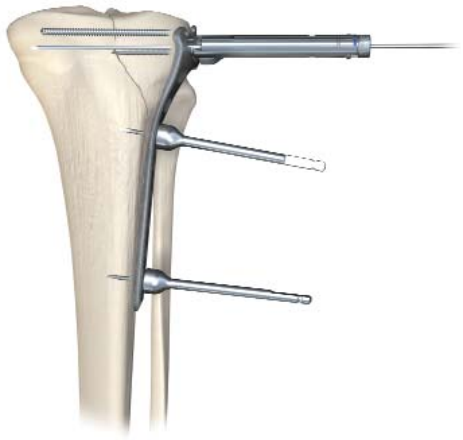
4.5mm Self-Tapping Cortex Screw (Non-Locking)
Cat. No. 7182-60XX

Screw Insertion

Begin with the proximal holes using the 3.5mm Long Drill Bit with Quick Connect or 2.0mm Guide Wire to confirm extra-articular screw placement. Insert the 2.0mm K-Wire (guide wire) through the 2.0mm K-Wire Locking Guide Insert (blue insert) for 5.7mm Cannulated Locking Screws. Predrill with the 3.5mm Calibrated Drill Bit through the 3.5mm Locking Drill Guide Insert (red insert) for the 4.5mm Locking Self-Tapping Cortex Screws.

When a sagittal split is present, reduction can be obtained with either clamps or lag screws, outside or through the plate. Insert all necessary lag screws prior to placement of locking screws. Locking screws should be used in at least two of the proximal holes before proceeding with definitive fixation of the distal fragment.

Advance the K-Wire to the medial plateau or desired screw length. Measure for screw length by placing the 5.7mm Cannulated Depth Gauge against the end of the 2.0mm K-Wire Locking Guide Insert.



Remove the locking screw guide with insert and insert the appropriate length 5.7mm Cannulated Locking Screw over the guide wire into the bone using the 3.5mm Cannulated Hexdriver Shaft.



3.5mm Drill Bit with Quick Connect

Cat. No. 7117-3505

2.0mm X 228mm K-Wire

Cat. No. 7117-3361



2.0mm K-Wire Locking Guide Insert

Cat. No. 7117-3531

5.7mm Cannulated Depth Gauge

Cat. No. 7117-3526

Confirm plate position and alignment prior to definitive fixation of the plate to the diaphysis. If 4.5mm Self-Tapping Cortex Screws (Non-Locking) are needed, they should be inserted prior to insertion of 4.5mm Locking Self-Tapping Cortex Screws in the diaphyseal fragment.



Pre-drill for the 4.5mm Self-Tapping Cortex Screws (Non-Locking) using the 3.5mm Drill Bit through the 3.5mm Compression or Neutral Locking Hole Insert (green or gold round drill guide inserts). Measure for length by reading the calibrations on the 3.5mm Drill Bit or by using the Large Fragment Screw Depth Gauge and insert the appropriate length 4.5mm Self-Tapping Cortex Screw (Non-Locking) using the 3.5mm Hexdriver with Quick Connect.

Remove the Proximal Fixation Pins and complete definitive fixation with the insertion of 4.5mm Locking Self-Tapping Cortex Screws.

After compression is obtained, thread the 4.5mm/5.7mm Locking Screw Guide with 3.5mm Locking Drill Guide Insert (Red) in screw holes where 4.5mm Locking Self-Tapping Cortex Screws are needed. Again, drill using the 3.5mm Drill Bit and read measurement from drill bit or use the Large Fragment Screw Depth Gauge. Insert the appropriate length 4.5mm Locking Self-Tapping Cortex Screw using the 3.5mm Hexdriver with Quick Connect. Make sure all screws are tight before closing the wound.



Note: Locking Screws can be inserted using a powered drill system, but should be tightened by hand. Tightening screws using a powered drill system may cause loss of reduction or expose the screw heads to excess torque.



3.5mm Neutral Locking Hole Insert
Cat. No. 7117-3521



3.5mm Compression Locking Hole Insert
Cat. No. 7117-3522



Universal Drill Guide Handle
Cat. No. 7117-3349

Large Fragment Screw Depth Gauge
Cat. No. 7117-3331



4.5mm Self-Tapping Cortex Screw
Cat. No. 7182-60XX

3.5mm Hexdriver Shaft w/Quick Connect
Cat. No. 7117-3537



Final lateral view



Final AP view

Catalog Information – Small Fragment Plates

3.5mm Lateral Proximal Tibia Locking Plates



Cat. No.	Length	Quantity in Set
7182-0404	4H Left 73mm	1
7182-0406	6H Left 98mm	1
7182-0408	8H Left 123mm	1
7182-0410	10H Left 149mm	1
7180-0413	13H Left 187mm	0
7182-0504	4H Right 73mm	1
7182-0506	6H Right 98mm	1
7182-0508	8H Right 123mm	1
7182-0510	10H Right 149mm	1
7180-0513	13H Right 187mm	0

Small Outer Case – 2.4”
Cat. No. 7112-9401

Lid for Outer Cases
Cat. No. 7112-9402

Plate Tray
Cat. No. 7117-0333

Catalog Information – Large Fragment Plates

4.5 mm Lateral Proximal Tibia Locking Plates



Cat. No.	Length	Quantity in Set
7182-0204	4H Left 94mm	1
7182-0206	6H Left 130mm	1
7182-0208	8H Left 165mm	1
7182-0210	10H Left 201mm	1
7182-0213*	13H Left 255mm	0
7180-0216	16H Left 309mm	0
7182-0304	4H Right 94mm	1
7182-0306	6H Right 130mm	1
7182-0308	8H Right 165mm	1
7182-0310	10H Right 201mm	1
7182-0313*	13H Right 255mm	0
7180-0316	16H Right 309mm	0

*optional

Small Outer Case – 2.4”
Cat. No. 7112-9401

Lid for Outer Cases
Cat. No. 7112-9402

Plate Tray
Cat. No. 7117-0320

Catalog Information – Small Fragment System Screws

2.7mm Self-Tapping Cortex Screws (Non-Locking)



Cat. No.	Length	Quantity in Set
7182-3010	10mm	3
7182-3012	12mm	3
7182-3014	14mm	3
7182-3016	16mm	3
7182-3018	18mm	3
7182-3020	20mm	3
7182-3022	22mm	3
7182-3024	24mm	3
7182-3026	26mm	3
7182-3028	28mm	3
7182-3030	30mm	3
7182-3032	32mm	3
7182-3034	34mm	3
7182-3036	36mm	3
7182-3038	38mm	3
7182-3040	40mm	3
7182-3045	45mm	3
7182-3050	50mm	3
7182-3055	55mm	3
7182-3060	60mm	3
7182-3065	65mm	3
7182-3070	70mm	3

3.5mm Self-Tapping Cortex Screws (Non-Locking)



Cat. No.	Length	Quantity in Set
7182-4010	10mm	5
7182-4012	12mm	5
7182-4014	14mm	5
7182-4016	16mm	10
7182-4018	18mm	10
7182-4020	20mm	5
7182-4022	22mm	5
7182-4024	24mm	5
7182-4026	26mm	5
7182-4028	28mm	5
7182-4030	30mm	5
7182-4032	32mm	5
7182-4034	34mm	5
7182-4036	36mm	5
7182-4038	38mm	5
7182-4040	40mm	5
7182-4045	45mm	5
7182-4050	50mm	5
7182-4055	55mm	5
7182-4060	60mm	5
7182-4065	65mm	5
7182-4070	70mm	5
7182-4075	75mm	5
7182-4080	80mm	5
7180-4085	85mm	0
7180-4090	90mm	0
7180-4095	95mm	0
7180-4100	100mm	0
7180-4105	105mm	0
7180-4110	110mm	0

3.5mm Locking Self-Tapping Cortex Screws



Cat. No.	Length	Quantity in Set
7182-5010	10mm	5
7182-5012	12mm	5
7182-5014	14mm	5
7182-5016	16mm	10
7182-5018	18mm	10
7182-5020	20mm	5
7182-5022	22mm	5
7182-5024	24mm	5
7182-5026	26mm	5
7182-5028	28mm	5
7182-5030	30mm	5
7182-5032	32mm	5
7182-5034	34mm	5
7182-5036	36mm	5
7182-5038	38mm	5
7182-5040	40mm	5
7182-5045	45mm	5
7182-5050	50mm	5
7182-5055	55mm	5
7182-5060	60mm	5
7182-5065	65mm	5
7182-5070	70mm	5
7182-5075	75mm	5
7182-5080	80mm	5
7180-5085	85mm	0
7180-5090	90mm	0
7180-5095	95mm	0
7180-5100	100mm	0
7180-5105	105mm	0
7180-5110	110mm	0

4.0mm Fully Threaded Cancellous Screws



Cat. No.	Length	Quantity in Set
7182-5210	10mm	3
7182-5212	12mm	3
7182-5214	14mm	3
7182-5216	16mm	3
7182-5218	18mm	3
7182-5220	20mm	3
7182-5222	22mm	3
7182-5224	24mm	3
7182-5226	26mm	3
7182-5228	28mm	3
7182-5230	30mm	3
7182-5232	32mm	3
7182-5234	34mm	3
7182-5236	36mm	3
7182-5238	38mm	3
7182-5240	40mm	3
7182-5245	45mm	3
7182-5250	50mm	3
7182-5255	55mm	3
7182-5260	60mm	3
7182-5265	65mm	3
7182-5270	70mm	3
7182-5275	75mm	3
7182-5280	80mm	3
7180-5285	85mm	0
7180-5290	90mm	0
7180-5295	95mm	0
7180-5300	100mm	0

4.0mm Partially Threaded Cancellous Screws



Cat. No.	Length	Quantity in Set
7182-5310	10mm	3
7182-5312	12mm	3
7182-5314	14mm	3
7182-5316	16mm	3
7182-5318	18mm	3
7182-5320	20mm	3
7182-5322	22mm	3
7182-5324	24mm	3
7182-5326	26mm	3
7182-5328	28mm	3
7182-5330	30mm	3
7182-5335	35mm	3
7182-5340	40mm	3
7182-5345	45mm	3
7182-5350	50mm	3
7182-5355	55mm	3
7182-5360	60mm	3
7182-5365	65mm	3
7182-5370	70mm	3
7182-5375	75mm	3
7182-5380	80mm	3
7180-5385	85mm	0
7180-5390	90mm	0
7180-5395	95mm	0
7180-5400	100mm	0

Washers



Cat. No.	Length	Quantity in Set
7114-3107	7.0mm O.D.	6

Catalog Information – Large Fragment System Screws

4.5mm Self-Tapping Cortex Screws (Non-Locking)



Cat. No.	Length	Quantity in Set
7182-6014	14mm	4
7182-6016	16mm	4
7182-6018	18mm	4
7182-6020	20mm	6
7182-6022	22mm	6
7182-6024	24mm	6
7182-6026	26mm	6
7182-6028	28mm	6
7182-6030	30mm	10
7182-6032	32mm	10
7182-6034	34mm	10
7182-6036	36mm	10
7182-6038	38mm	10
7182-6040	40mm	10
7182-6042	42mm	6
7182-6044	44mm	4
7182-6046	46mm	4
7182-6048	48mm	4
7182-6050	50mm	4
7182-6052	52mm	4
7182-6054	54mm	4
7182-6056	56mm	4
7182-6058	58mm	4
7182-6060	60mm	4
7182-6062	62mm	4
7182-6064	64mm	4
7182-6066	66mm	4
7182-6068	68mm	4
7182-6070	70mm	4
7182-6072	72mm	4
7182-6074	74mm	4
7182-6076	76mm	4
7182-6078	78mm	4
7182-6080	80mm	4
7182-6085	85mm	4
7182-6090	90mm	2
7182-6095	95mm	2
7182-6100	100mm	2
7180-6105	105mm	0
7180-6110	110mm	0
7180-6115	115mm	0
7180-6120	120mm	0
7180-6125	125mm	0
7180-6130	130mm	0

4.5mm Locking Self-Tapping Cortex Screws



Cat. No.	Length	Quantity in Set
7182-7010	10mm (Blunt Tip)	4
7182-7012	12mm (Blunt Tip)	4
7182-7014	14mm	4
7182-7016	16mm	4
7182-7018	18mm	4
7182-7020	20mm	6
7182-7022	22mm	6
7182-7024	24mm	6
7182-7026	26mm	6
7182-7028	28mm	6
7182-7030	30mm	10
7182-7032	32mm	10
7182-7034	34mm	10
7182-7036	36mm	10
7182-7038	38mm	10
7182-7040	40mm	10
7182-7042	42mm	6
7182-7044	44mm	4
7182-7046	46mm	4
7182-7048	48mm	4
7182-7050	50mm	4
7182-7052	52mm	4
7182-7054	54mm	4
7182-7056	56mm	4
7182-7058	58mm	4
7182-7060	60mm	4
7182-7062	62mm	4
7182-7064	64mm	4
7182-7066	66mm	4
7182-7068	68mm	4
7182-7070	70mm	4
7182-7072	72mm	4
7182-7074	74mm	4
7182-7076	76mm	4
7182-7078	78mm	4
7182-7080	80mm	4
7182-7085	85mm	4
7182-7090	90mm	2
7182-7095	95mm	2
7182-7100	100mm	2
7180-7105	105mm	0
7180-7110	110mm	0
7180-7115	115mm	0
7180-7120	120m	0
7180-7125	125mm	0
7180-7130	130mm	0

5.7mm Cannulated Locking Screws



Cat. No.	Length	Quantity in Set
7182-8020	20mm	3
7182-8025	25mm	3
7182-8030	30mm	3
7182-8035	35mm	3
7182-8040	40mm	3
7182-8045	45mm	3
7182-8050	50mm	3
7182-8055	55mm	5
7182-8060	60mm	5
7182-8065	65mm	5
7182-8070	70mm	5
7182-8075	75mm	5
7182-8080	80mm	5
7182-8085	85mm	3
7182-8090	90mm	3
7182-8095	95mm	3
7182-8100	100mm	3
7180-8105	105mm	0
7180-8110	110mm	0
7180-8115	115mm	0
7180-8120	120mm	0

6.5mm Partially Threaded Cancellous Screws



Cat. No.	Length	Quantity in Set
7182-8150	50mm	4
7182-8155	55mm	4
7182-8160	60mm	4
7182-8165	65mm	4
7182-8170	70mm	4
7182-8175	75mm	4
7182-8180	80mm	4
7182-8185	85mm	4
7182-8190	90mm	4
7182-8195	95mm	4
7182-8200	100mm	4
7180-8205	105mm	0
7180-8210	110mm	0

Washers



Cat. No.	Length	Quantity in Set
7114-3110	10mm O.D.	6
7114-3113	13mm O.D.	6

Catalog Information – Small Fragment System Instruments

Sharp Hook
Cat. No. 7117-0043

Hohmann Retractor, 8mm Width
Cat. No. 7117-0057



Hohmann Retractor, 15mm Width
Cat. No. 7117-0095



Hohmann Retractor Bent, 8mm
Cat. No. 7117-3369



Wire Bending Pliers, 140mm Length
Cat. No. 7117-0063



Bending Pliers for 2.7mm
& 3.5mm Plates
Cat. No. 7117-0076



Bending Pliers for 3.5mm
Reconstruction Plates
Cat. No. 7117-0175



Periosteal Elevator 6mm, Rounded
Cat. No. 7117-0097



Universal Plate Bending Irons
Cat.No. 7117-3367



Small Fragment Countersink
Cat. No. 7117-3344

Reduction Forceps w/ Ratchet-Bowed, 205mm
Cat. No. 7117-3370



Reduction Forceps w/Points, Broad
Cat. No. 7117-3377



Reduction Forceps w/Serrated Jaw
Cat. No. 7117-3378



3.5mm Locking Screw Guide
Cat. No. 7117-3538



2.7mm Locking Drill Guide Insert
Cat. No. 7117-3529



2.7mm Locking Drill Guide – One Piece
Optional
Cat. No. 7117-3450



Universal Drill Guide Handle
Cat.No. 7117-3349



2.0mm Wire/Drill Insert
Cat. No. 7117-3517



2.7mm Drill Guide Insert
Cat. No. 7117-3510



3.5mm Drill Guide Insert
Cat. No. 7117-3513



2.7mm Neutral Locking Hole Insert
Cat. No. 7117-3514



2.7mm Compression Locking Hole Insert
Cat. No. 7117-3515



2.7mm Neutral Slot Insert
Cat. No. 7117-3512



2.7mm Compression Slot Insert
Cat. No. 7117-3511



2.0mm Parallel Wire/Drill Guide
Cat. No. 7117-3516



2.7mm Screw Depth Gauge
Cat. No. 7117-3525



Short 3.5mm Screw Depth Gauge
Cat. No. 7117-3523



3.5mm Screw Depth Gauge
Cat. No. 7117-3534



Cannulated Bending Irons for K-wires
Cat.No. 7117-3527



Cannulated AO to Trinkle Adaptor
Cat.No. 7117-3528



Small T-Handle, Quick Coupling
Cat.No. 7117-3542



Tear Drop Handle Screwdriver w/Quick Connect
Cat.No. 7117-3543



Large Screwdriver Handle
Cat.No. 7117-3547



Self Centering Reverse Verbrugge, 190mm
Cat. No. 7117-3544



2.5mm Hexdriver Shaft w/AO Quick Connect
Cat. No. 7117-3535

3.5mm Hexdriver Shaft w/
AO Quick Connect
Cat.No. 7117-3537

Small Fragment Guide Removal Assembly
Cat. No. 7117-3549



Catalog Information – Small Fragment System Trays

Large Outer Case – 4.8”
Cat. No. 7112-9400

Lid for Outer Cases
Cat.No. 7112-9402

PERI-LOC Small Fragment Instrument Tray
Cat. No. 7117-0330

Catalog Information – Small Fragment System Disposables

K-Wires with Trocar Point and Threaded Pins

Cat. No.	Description	Quantity in Set
7116-1012	1.25mm x 150mm	6
7116-1016	1.6mm x 150mm	6
7116-1020	2.0mm x 150mm	6

Taps with Quick Connect

Cat. No.	Description	Quantity in Set
7117-3318	3.5mm	2
7117-3366	2.7mm	2
7117-3386	4.0mm Cancellous	2

Provisional Fixation Pins



Cat. No.	Description	Quantity in Set
7117-3322	2.7mm x 18mm	4
7117-3323	2.7mm x 40mm	4

Drill Bits with Quick Connect

Cat. No.	Description	Quantity in Set
7117-3501	2.0mm	2
7117-3502	2.7mm Short	2
7117-3503	2.7mm	2
7117-3504	3.5mm Short	2

Catalog Information – Large Fragment System Instruments

Sharp Hook
Cat. No. 7117-0043

Wire Bending Pliers, 140mm Length
Cat. No. 7117-0063



Large Fragment Screw Depth Gauge
Cat.No. 7117-3331



5.7mm Cannulated Depth Gauge
Cat.No. 7117-3526



Large Fragment Countersink
Cat.No. 7117-3353



Universal Plate Bending Irons
Cat.No. 7117-3367



Hohmann Retractor Long, 15mm Width
Cat.No. 7117-3393



Universal Drill Guide Handle
Cat.No. 7117-3349



2.0mm Wire/Drill Insert
Cat.No. 7117-3517



3.5mm Drill Guide Insert
Cat.No. 7117-3513



2.0mm Parallel Wire/Drill Guide
Cat.No. 7117-3516



4.5mm Drill Guide Insert
Cat.No. 7117-3520



3.5mm Neutral Locking Hole Insert
Cat.No. 7117-3521



3.5mm Compression Locking Hole Insert
Cat.No. 7117-3522



3.5mm Neutral Slot Insert
Cat.No. 7117-3519



3.5mm Compression Slot Insert
Cat.No. 7117-3518



4.7mm Hexdriver
Cat.No. 7117-3540

Cannulated Bending Irons for K-wires
Cat.No. 7117-3527



Cannulated AO to Trinkle Adaptor
Cat.No. 7117-3528



4.5/5.7mm Locking Screw Guide
Cat.No. 7117-3539



2.0mm K-Wire Locking Guide Insert
Cat.No. 7117-3531



3.5mm Locking Drill Guide Insert
Cat.No. 7117-3530



4.5mm Locking Drill Guide Insert
Cat.No. 7117-3532



3.5mm Locking Drill Guide – One Piece
Optional
Cat. No. 7117-3451



4.5mm Locking Drill Guide – One Piece
Optional
Cat. No. 7117-3541



Large Frag Guide Removal Assembly
Cat.No. 7117-3550



Large Frag Torque Limiting Adaptor
Cat.No. 7117-3548



Large Screwdriver Handle
Cat.No. 7117-3547



Tear Drop Handle Screwdriver with Quick Connect
Cat.No. 7117-3543



Small T-Handle, Quick Coupling
Cat.No. 7117-3542



3.5mm Hexdriver Shaft
w/AO Quick Connect
Cat.No. 7117-3537

3.5mm Cannulated Hexdriver Shaft
Cat.No. 7117-3536

Catalog Information – Large Fragment System
Forceps Tray Instruments

Self Centering Reverse Verbrugge

Cat. No.	Description
7117-3544	190mm
7117-3545	240mm
7117-3546	280mm



Reduction Forceps with Ratchet, 205mm
Cat. No. 7117-0044



Reduction Forceps with Speed Knob, 240mm
Cat. No. 7117-0050



Socket Wrench with Universal Joint
Cat. No. 7117-0143



Articulated Tension Device with Gauge
Cat. No. 7117-0145



Lamina Spreader
Cat. No. 7117-3365



Reduction Forceps with Ratchet-Bowed, 205mm
Cat. No. 7117-3370



Reduction Forceps with Ratchet, 240mm
Cat. No. 7117-3371



Reduction Forceps with Points, Broad
Cat. No. 7117-3377



Reduction Forceps with Serrated Jaw
Cat. No. 7117-3378



Catalog Information – Large Fragment System Trays

PERI-LOC Large Frag Instrument Tray
Cat.No. 7117-0327

Small Outer Case – 2.4”
Cat. No. 7112-9401

Lid for Outer Cases
Cat. No. 7112-9402

PERI-LOC Forceps Tray
Cat. No. 7117-0326

Catalog Information – Large Fragment System Disposables

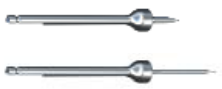
K-Wires with Trocar Point and Threaded Pins

Cat. No.	Description	Quantity in Set
7116-1020	2.0mm x 150mm	6
7117-3361	2.0mm x 228mm	6

Taps with Quick Connect

Cat. No.	Description	Quantity in Set
7117-3319	4.5mm	2
7117-3509	6.5mm Cancellous	2

Provisional Fixation Pins



Cat. No.	Description	Quantity in Set
7117-3324	3.5mm x 18mm	4
7117-3325	3.5mm x 40mm	4

Drill Bits with Quick Connect

Cat. No.	Description	Quantity in Set
7117-3504	3.5mm Short	2
7117-3505	3.5mm	2
7117-3506	4.5mm	2
7117-3507	4.5mm Short	2
7117-3508	4.5mm Cannulated	2

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